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| <p>95-237180/31 C02 MITSUI TOATSU CHEM INC 93.11.24 93IP-293004 (95.06.06) C07D 277/56, A01N 43/78 New N-substd. 5-thiazole-carboxamide derivs. - used as herbicides, prep'd. from corresp. acid halide and 2-amino-biphenyl C95-109050</p> | <p>C(7-F1, 14-A6) .2</p> |
| <p>MITK 93.11.24 *JP 07145156-A</p> <p>N-(2-Phenylphenyl)-4-trifluoromethyl-thiazole- 5-carboxamide derivs. of formula (I) are new.</p> <div data-bbox="727 1144 901 1795"> <p>(I)</p> </div> <p>R=H or CH₃.</p> <p><u>USE</u> (I) are fungicides, effective against e.g. Botrytis cinerea, Sphaerotheca fuliginea, Erysiphe graminis, Sphaerotheca humuli,</p> | <p>Uncinula necator, Podosphaera leucotricha or Gibberella zeae.</p> <p><u>PREPARATION</u> (I) are prep'd. by reacting thiazolecarboxylic halides of formula (II) with 2-aminobiphenyl in a melt or in a solvent.</p> <div data-bbox="771 315 941 1018"> <p>(II)</p> <p>2-aminobiphenyl \longrightarrow (I)</p> </div> <p>X=halogen.</p> <p>JP 07145156-A +</p> |

EXAMPLE

A suspension of 4g 2-methyl-4-trifluoromethylthiazole-5-carboxylic acid in 50 ml toluene was treated with 4.74 g PCl_5 , refluxed for 3 hrs. and evapd. 30 ml THF tetrahydrofuran and 1.8g pyridine were added, then 3.56g 2-aminobiphenyl was added while stirring at room temp. The mixt. was stirred for 2 hrs., poured into water, washed, dried and conc. The prod. was purified to give 5.3g (73%) of N-(2-phenylphenyl)-2-methyl-4-trifluoromethylthiazole-5-carboxamide, m.pt. 121.6-122.8 °C. N-(2-Phenylphenyl)-4-trifluoromethylthiazole-5-carboxamide was also prepd. (A B)
(7pp0078DwgNo.0/0)

JP 07145156-A

THIAZOLECARBOXYLIC ACID AMIDE DERIVATIVE AND AGRICULTURAL AND HORTICULTURAL GERMICIDE CONTAINING THE SAME AS ACTIVE COMPONENT

Publication number: JP7145156

Publication date: 1995-06-06

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Applicant: MITSUI TOATSU CHEMICALS

Classification:

- international: **C07D277/20; A01N43/78; C07D277/56; C07D277/00;
A01N43/72; (IPC1-7): C07D277/56; A01N43/78**

- european:

Application number: JP19930293004 19931124

Priority number(s): JP19930293004 19931124

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Abstract of JP7145156

PURPOSE:To obtain a new thiazolecarboxylic acid amide derivative having a preventive effect on e.g. gray mold and powdery mildew of a crop such as cucumber or tomato and Brown rust of wheat and useful as an agricultural and horticultural germicide, etc. **CONSTITUTION:**A compound of formula I (R is H or methyl), e.g. N-(2- phenylphenyl)-2-methyl-4-trifluoromethylthiazole-5-carboxylic acid amide. In addition, the compound of formula I is produced by reacting a thiazolecarboxylic acid halide of formula II (X is a halogen) with 2-aminobiphenyl in the presence of a base such as triethylamine in a solvent such as THF.

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